

Sigma Product Information Sheet

TERGITOL DETERGENTS XD and XH

CAS NUMBER:

9038-95-3

GENERAL STRUCTURE:

CH3 (CH2)3-O-[CH2 CH2 O / CH2 CH(CH3)O]x (CH2 CH2 O)yH

These two nonionic detergents are manufactured by Union Carbide through the reaction of propylene oxide with ethylene oxide. Both are supplied as white, waxy solids at room temperature, hazy liquids in the molten state. Both are chemically stable in the presence of dilute acids, bases and salts, and are compatible with anionic, cationic and other nonionic surfactants. Dilute aqueous solutions are clear and bright, whereas concentrated solutions (30% and above for XH) form clear gels. Both are soluble in chlorinated solvents and many polar organic solvents.

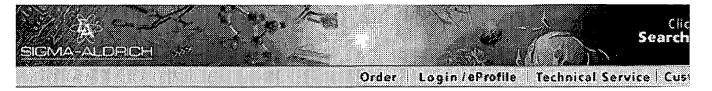
TYPICAL CHEMICAL AND PHYSICAL PROPERTIES:

Not to be used for specification purposes.

Hydroxyl number (mg KOH/g)	XID 18	XH 15
Molecular weight (calc. from OH#)	3227	3740
Actives (wt %)	100	100
Cloud point (1% aqueous solution)	76°C	99 °C
Pour point (°C)	35	44
pH (X% aqueous solution, at 25°C)	6.5 (20%)	5.4 (10%)
Viscosity (cP at 50 °C)	251	319
Appearance (at 50 °C)	H azy liquid	Hazy liquid
Specific gravity (at X/20 °C)	1.041 (40°C)	1.048 (50°C)
Surface tension (0.1% aqueous solution, dynes/cm)	38	39
Critical micelle concentration (CMC)	0.000050 wt %	0.000069 wt %

ckv/020496/t8006x.gen

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Product Number: NP-40

Product Name: Tergitol

Fredominismestun/

Synonyms: MDL number: MFCD00132411

Description

Certificate of Analysis

MSDS

Structure Image

Options

Print Preview

Bulk Quote Ask A Scientist

CAS Number: 127087-87-0 MDL Number: MFCD00132411

Storage Temp: RT

Comments:

Type NP-40

Low-melting solid

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